

**§ 113.65-5**

(f) On a vessel not divided into vertical fire zones by main vertical fire bulkheads, the vessel must be divided into vertical zones not more than 40 meters (131 feet) long. There must be a feeder for each of these zones.

(g) Feeders and branch circuit cables must be in passageways. They must not be in staterooms, lockers, galleys, or machinery spaces, unless it is nec-

**46 CFR Ch. I (10-1-98 Edition)**

essary to supply public address speakers in those spaces.

[CGD 94-108, 61 FR 28291, June 4, 1996]

**Subpart 113.65—Whistle Operators**

**§ 113.65-5 General requirements.**

Each whistle operator must meet section 37.19 of IEEE Standard No. 45.

[CGD 74-125A, 47 FR 15272, Apr. 8, 1982, as amended by CGD 82-036, 48 FR 655, Jan. 6, 1983; CGD 94-108, 61 FR 28291, June 4, 1996]

# INDEX

## SUBCHAPTER J—ELECTRICAL ENGINEERING

EDITORIAL NOTE: This listing is provided for informational purposes only. It is compiled by and kept current by the Coast Guard, Department of Transportation.

*Part, subpart, or section*

### A

Accessibility:	
General Requirements .....	111.01-7
Air heating equipment .....	111.87
Alarms:	
Engine order telegraph .....	113.35-5
Engineers' assistance needed .....	113.27
Environmental tests .....	113.05-7
Fire and smoke detecting and alarm systems .....	113.10
General emergency alarm systems .....	113.25
Refrigerated spaces .....	113.45-5
Semiconductor rectifier temperature .....	111.33-7, 111.33-11
Sprinkler system .....	113.20
Steering failure .....	113.43
Submerged cargo pump motors .....	111.105-31(d), 111.105-31(e)(2), 111.105-32(e)
Ventilation loss .....	111.105-33(f)(1), 111.105-39(a)
American Bureau of Shipping:	
Rules .....	110.10-1(b)
American National Standard Safety Code for Elevators, Dumbwaiters, and Escalators, and Moving Walks ( <i>See</i> American National Standards Institute)	
American National Standards Institute:	
Standards .....	110.10-1(b)
American Society for Testing and Materials:	
Standards .....	110.10-1(b)
American Society of Mechanical Engineers ( <i>See</i> American National Standards Institute)	
Ammeters:	
Generators .....	111.30-25(b), 111.30-27
Ammonia carriers .....	111.105-32
Anesthetics, flammable .....	111.105-37
Appliances .....	111.77
Grounding .....	111.05
Overcurrent protection .....	111.77-1
Receptacle outlets .....	111.79
Applicability of this subchapter .....	110.01
Armored cable ( <i>See</i> Cable, armored)	
Attachment plugs ( <i>See</i> Receptacles)	
Automatic emergency lighting and power system, definition of .....	112.01-10
Automatic fire detecting and alarm system ( <i>See</i> Fire detecting and alarm system)	
Automatic sprinkler systems ( <i>See</i> Sprinkler systems)	
Autotransformers .....	111.20-10

## 46 CFR (10-1-98 Edition)

### **B**

Batteries, storage.....	111.15
Box linings .....	111.15-5(g)
Boxes .....	111.15-5
Categories.....	111.15-3
Conductors .....	111.15-20
Construction.....	111.15-2
Electric starting.....	112.50-5
Emergency lighting and power source.....	112.05-5, 112.30, 112.35, 112.37, 12.45, 112.50-5, 112.55
Engine starting.....	111.05-11(a)(2)
Installation.....	111.15-5
Nameplates.....	111.15-5(e)
Overload protection .....	111.15-25
Reverse current protection .....	111.15-25
Room and locker.....	111.15-5(f)
Rooms, hazardous locations.....	111.15-5(a), 111.105-41
Trays.....	111.15-5(d)
Ventilation.....	111.15-10
Battery chargers .....	111.15-30
Belt drives .....	111.105-27
Berth lights.....	111.75-15(d)
Berthing compartments, lighting of.....	111.75-15(a)
Bilge pumps, submersible .....	111.101
Source of power .....	112.15-5(d)
Boat winches, power operated.....	111.95
Boxes:	
Fire detecting and alarm systems .....	113.10-7
Shore connection.....	111.83
Sound powered telephone system .....	113.30-25(h)
Sprinkler system.....	113.20-3
Branch circuits:	
Appliance.....	111.77-1
Autotransformer .....	111.20-10
General alarm.....	113.25-8
Lighting ( <i>See</i> Lighting branch circuits)	
Motor ( <i>See</i> Motor branch circuits)	
Steering gear ( <i>See</i> Steering gear)	
Ungrounded conductors .....	111.50-3(f)
Vital equipment.....	111.60-9
Buses, switchboard.....	111.30-19
Busways.....	111.59
Bus-tie, main/emergency .....	112.05-3

### **C**

Cable:	
Application .....	111.60-3
Armored .....	111.05-7, 111.105-17
Connections.....	111.60-17
Construction.....	111.60-1
Fiber optic .....	111.60-6
Generator .....	111.12-9
Grounding of armor .....	111.05-7
In battery rooms .....	111.15-20
In hazardous spaces.....	111.105-15, 111.105-17, 111.105-31
Inspection and testing .....	111.60-1, 111.60-13(a), 111.60-21

## INDEX

Installation.....	111.60-5
Metal-clad (type MC) cable .....	111.60-23
Portable cords and cable .....	111.60-13
Segregation of vital circuits.....	111.60-9
Specialty cable for communication and RF applications.....	111.60-2
Splicing .....	111.60-17, 111.60-19
Wire .....	111.30-19, 111.60-11
Calculation of short-circuit current.....	111.52
Cargo spaces:	
Emergency lighting .....	112.15-1(f)
Lighting.....	111.75-1
Ventilation.....	111.103-1
Central control panel, definition of.....	111.99-3
Chargers, battery .....	111.15-30
Chemicals, vessels carrying.....	111.105
Circuit:	
Branch ( <i>See Branch circuits</i> )	
Lighting ( <i>See Lighting branch circuit</i> )	
Motor ( <i>See Motor circuits</i> )	
Vital, segregation of.....	111.60-9
Circuit breakers:	
Accessibility.....	111.50-5(b)
Circuit connections .....	111.55-3
Coordination .....	111.51
Construction.....	111.54-1
Disconnecting and guarding.....	111.50-9
Drawout type .....	111.30-25(b)(2), 111.30-27(b)(2)
Enclosure.....	111.50-7
Generator protection.....	111.12-11, 111.30-25(b), 111.30-27(b)
Grounded conductors.....	111.50-3(g)
In parallel.....	111.50-3(d)
Installation.....	111.51-3
Interrupting rating.....	111.54-1(a)
Location in circuit .....	111.50-5(a)
Setting or rating .....	111.50-3
Ungrounded conductors .....	111.50-3(f)
Coal, vessels carrying .....	111.105-35
Coastwise vessel, definition of.....	110.15-1(b)
Codes, references and standards .....	110.10
Combustible liquid, vessels carrying .....	111.105-29
Commandant, definition of.....	110.15-1(b)
Communication systems:	
Engine order telegraph ( <i>See Engine order telegraph</i> )	
Environmental tests.....	113.05-7
Essential .....	112.15-1(h)
Sound powered telephone ( <i>See Sound powered telephone</i> )	
Compass, gyro:	
Communication .....	113.30-5(b)
Power supply.....	112.15-5(j)
Compressed air starting.....	112.50-7
Conductors:	
Lightning ground.....	111.05-9
Systems ground.....	111.05-31
Connection boxes, shore power.....	111.83
Contact makers, general emergency alarm system:	
General.....	113.25-11

## 46 CFR (10-1-98 Edition)

Location .....	113.25-5
Controllers, motor ( <i>See Motor controller</i> )	
Cooking equipment.....	111.77-3
Coordination of overcurrent protective devices.....	111.51
Cord, flexible.....	111.60-13
Corrosion-resistant material or finish:	
Definition.....	110.15-1(b)
Requirements.....	111.01-11
Corrosive location, definition of .....	110.15-1(b)
Crew spaces:	
Emergency lighting.....	112.15-1(c)
Lighting.....	111.75-15(c)
Current-carrying capacity:	
Cable.....	111.60-1
Portable cords.....	111.60-13(c)
Wire.....	111.60-11(c)

## D

Dead ship condition:	
Definition .....	110.15-1(b)
Start up .....	111.10-7
Definitions.....	110.15-1
Depth sounder, power supply for .....	112.15-5(n)
Detector systems:	
Fire ( <i>See Fire detecting and alarm systems</i> )	
Gas ( <i>See Gas detection systems</i> )	
Smoke ( <i>See Smoke detector systems</i> )	
Diesel engine driven emergency generator sets .....	112.50
Disconnecting means:	
Control, interlock, or indicator circuits .....	111.70-7(d)
Generators .....	111.30-25(b), 111.30-27(b)
Motor circuits.....	111.70-1
Overcurrent devices.....	111.50-9
Distribution panels ( <i>See Panelboards</i> )	
Door holding and release systems .....	111.99
Doors, watertight, electric power-operated.....	111.97
Drawings, submittal requirements.....	110.25
Drilling units:	
Hazardous locations.....	111.105-33
Industrial systems .....	111.107
Driproof, definition of .....	110.15-1(b)
Dumbwaiters .....	111.91
Duty cycle.....	111.25-15

## E

Electric air heaters .....	111.87
Electric cooking equipment .....	111.77-3
Electric oil immersion heaters.....	111.85
Electric power-operated lifeboat winches	
Applicability.....	111.95-1
General requirements .....	111.95-3
Wiring.....	111.95-7
Electric power-operated watertight door systems ( <i>See Watertight door systems</i> )	
Electric propulsion:	
General .....	111.35
Grounding .....	111.05-21(a)

## INDEX

Electric starting, emergency generator prime mover .....	112.50-5
Electric steering gear ( <i>See</i> Steering gear)	
Electrical installations in hazardous locations:	
Agricultural products, vessels carrying .....	111.105-45
Applicability .....	111.105-1
Approved equipment .....	111.105-7
Battery rooms .....	111.105-41
Belt drives .....	111.105-27
Coal carriers .....	111.105-35
Combustible liquid cargo carriers .....	111.105-29, 111.105-31
Explosionproof equipment .....	111.105-9
Flammable anesthetics .....	111.105-37
Flammable cargo carriers .....	111.105-31
Fuel, vessels carrying vehicles with.....	111.105-39
General requirements .....	111.105-3
Industrial systems .....	111.107
Intrinsically safe systems .....	111.105-11
Liquefied gas carriers .....	111.105-32
Mobile offshore drilling units.....	111.105-33, 111.107
Paint stowage or mixing spaces .....	111.105-43
Purged and pressurized equipment .....	111.105-7(b), 111.105-10
RO/RO vessels, additional requirements for .....	111.105-40
Switches .....	111.105-19
Ventilation ducts.....	111.105-21
Wiring methods .....	111.105-15, 111.105-17
Electrical supply:	
Voltage and frequency .....	111.01-17
Elevators, dumbwaiters, and escalators:	
General .....	111.91
Power supply .....	112.15-5(b)
Embarkation station:	
Definition .....	110.15-1(b)
Emergency lighting.....	111.75-16, 112.43-11
Emergency diesel and gas turbine:	
Engine driven generator sets .....	112.20-10
Emergency lighting and power system .....	112
Alternating-current temporary source .....	112.40
Automatic emergency lighting and power system, definition .....	112.01-10
Branch circuits .....	111.75-15(a)
Cable in engineroom .....	112.05-5(f)
Compartment protection.....	112.05-5(e)
Control of lights .....	112.43-1, 112.43-5
Definitions .....	112.01
Diesel driven emergency source of power .....	112.20-10
Emergency loads on systems without a temporary emergency power source.....	112.15-10
Emergency power source .....	112.05-5
Emergency system having an automatic starting diesel engine or gas turbine-driven emergency power source as the sole emergency power source.....	112.25
Failure of power from the normal source .....	112.20-5
Final emergency loads.....	112.15-5
Final emergency power source, definition .....	112.01-20
Gas turbine .....	112.20-10
Generators .....	112.50-1
Lighting feeder ( <i>See</i> Lighting)	
Main-emergency bus-tie .....	112.05-3
Manual control .....	112.35-5

## 46 CFR (10-1-98 Edition)

Manual emergency lighting and power system, definition.....	112.01-5
Marking of emergency lights .....	112.15-1(d)
Potential of final emergency power source.....	112.20-15
Source of supply.....	112.05-5
Storage batteries:	
Capacity.....	112.05-5(a), 112.55-15
Charging.....	112.55-10
Indication of discharge .....	112.45-1
Installation.....	112.55
Maximum initial voltage.....	112.55-5
Visible indicators.....	112.45-1
Switchboard .....	111.30-29, 112.05-5(g), 112.05-5(h)
Temporary emergency power source:	
Definition .....	112.01-15
Requirements .....	112.37
Temporary emergency loads.....	112.15-1
Visible indicators .....	112.45-1
Emergency squad:	
Definition .....	110.15-1(b)
Equipment locker, communication.....	113.30-5(d)
Enclosure and protection .....	111.01-3, 111.01-5, 111.01-9, 111.01-11
Engine order telegraph system:	
Definitions.....	113.35-1
Electric type.....	113.35-5
General requirements.....	113.35-3
Indicator, definition .....	113.35-1
Mechanical type .....	113.35-9
Navigating bridge control .....	113.35-17
Transmitter, definition .....	113.35-1
Engineers alarm .....	113.27
Engineroom:	
Communication required.....	113.30-5(a)
Emergency lighting.....	112.15-1(b)
Lighting.....	111.75-1(b), 111.75-15(b)
Equalizer buses .....	111.12-11(i)(2)
Equalizer poles .....	111.12-11(i)(1)
Equipment grounding conductors .....	111.05-33
Equivalents.....	110.20-1
Escalators ( <i>See</i> Elevators)	
Escape trunks, emergency lighting of.....	112.15-1(c)
Excitation, generator .....	111.12-3
Exit lights:	
Construction .....	111.75-15(e)
Power source .....	112.15-1(d)
Explosion-proof equipment .....	111.105-9

## F

Fan, nonsparking, definition.....	110.15-1(b)
Fans in hazardous locations .....	111.105-21
Fault current calculations ( <i>See</i> Short-circuit calculations)	
Feeders, general alarm system .....	113.25-8
Final emergency loads.....	112.15-5
Final emergency power source, definition of .....	112.01-20
Fire detecting and alarm system:	
Power supply .....	112.15-1(p), 113.10-9
Requirements .....	113.10
Fire door holding and release systems:	

## INDEX

Applicability.....	111.99-1
Definitions.....	111.99-3
Requirements .....	111.99-5
Source of power.....	112.15-1(k)
Fire pumps, emergency:	
Source of power .....	112.15-5(e)
Fixture wire ( <i>See</i> Wire)	
Fixtures ( <i>See</i> Lighting)	
Flammable anesthetics .....	111.105-37
Flammable cargo carriers .....	111.105-31, 111.105-32
Flashing red lights, general emergency alarm system .....	113.25-10
Flashpoint:	
Definition.....	110.15-1(b)(13)
Fuel for emergency generator .....	112.50-1(b)
Flexible cord .....	111.60-13
Floodlights, lifeboat ( <i>See</i> Lifeboat floodlights)	
Frequency:	
Standard .....	111.01-17
Fuel-oil pumps, remote control .....	111.103-9
Fuses:	
Accessibility.....	111.50-5(b)
Circuit connections .....	111.55-3
Coordination .....	111.51
Disconnecting and guarding.....	111.50-9
Enclosures .....	111.50-7
General emergency alarm system.....	113.25-16
General requirements .....	111.53-1
Grounded conductors.....	111.50-3
In parallel.....	111.50-3(d)
Location in circuit .....	111.50-5(a)
Rating .....	111.50-3, 111.75-5(d)
Ungrounded conductors .....	111.50-3(f)

## G

Galley, emergency lighting of.....	112.15-1(f)
Gas detection systems .....	111.105-31(n), 111.105-39(b), 111.105-40(c)
Gasoline, in vehicles.....	111.105-39
General emergency alarm systems:	
Alarm signals.....	113.25-9, 113.25-12
Applicability.....	113.25-1
Barges .....	113.25-1, 113.25-25, 113.25-30
Cable entrances.....	113.25-14
Contact makers.....	113.25-5, 113.25-11
Distribution of feeder and branch circuits .....	113.25-8
Distribution panels .....	113.25-15
Flashing red lights .....	113.25-10
Fuses .....	113.25-16
General requirement.....	113.25-3
Marking .....	113.25-20
Overcurrent protection.....	113.25-7
Power supply .....	113.25-6
Generator:	
Cable.....	111.12-9
Construction .....	111.12
Emergency .....	111.12, 112.50
Excitation.....	111.12-3
Grounding .....	111.05-17

## 46 CFR (10-1-98 Edition)

Indicating instruments.....	111.30-25, 111.30-27, 111.30-29
Neutral grounding.....	111.05-17
Overcurrent protection .....	111.12-11
Parallel operation.....	111.12-7
Prime movers for.....	111.12-1
Protection.....	111.12-11
Requirement.....	111.10-3, 112.05-5
Switchboard equipment.....	111.30-25, 111.30-27, 111.30-29
Testing .....	111.12-5
Voltage regulation.....	111.12-7
General emergency alarm signals.....	113.25-9
Great Lakes vessel, definition of.....	110.15-1(b)
Ground detection:	
Dual voltage d.c. systems.....	111.05-29
General.....	111.05-21
Location.....	111.05-23
Requirement .....	111.05-21
Switchboards.....	111.30-25(e), 111.30-27(e), 111.30-29(g), 111.30-29(h)
Ungrounded systems .....	111.05-25
Grounded conductors:	
Emergency switchboard bus-tie .....	111.05-17
Overcurrent device .....	111.05-3(h), 111.05-37
Grounded systems .....	111.05
Grounding:	
Belt drive systems.....	111.105-27
Cable metallic covering.....	111.05-7
Conductors, equipment .....	111.05-33
Conductors, system.....	111.05-31
Equipment .....	111.05-3
Generation system .....	111.05-17
Hull return .....	111.05-11
Masts .....	111.05-9
Neutral .....	111.05-15
Purpose.....	111.05-1
Receptacles.....	111.79-3
System .....	111.05-11, 111.05-13, 111.05-17, 111.05-19
Tank vessels.....	111.05-19
Group control panels ( <i>See</i> Motor control centers)	
Gyro compass ( <i>See</i> Compass, gyro)	

## H

Hazardous locations ( <i>See</i> Electrical installations in hazardous locations)	
Heater circuits.....	111.70-5
Heating equipment, air .....	111.87
Hospital .....	111.105-37
Hull return .....	111.05-11
Hydraulic starting, emergency generator prime mover .....	112.50-3

## I

Illumination .....	111.75
Immersion heaters .....	111.85
Inclination of the vessel.....	111.01-19
Industrial systems .....	111.107
Independent laboratory .....	110.15-1(b)
Inorganic acid carriers .....	111.105-31

## INDEX

Inspector ( <i>See</i> Marine inspector)	
Inspection and testing:	
Annual or biennial.....	110.30-5
General .....	110.30-1
Initial .....	110.30-3
Repairs or alterations.....	110.30-7
Institute of Electrical and Electronics Engineers (IEEE):	
Standards .....	110.10-1(b)
Instruments:	
Emergency battery charger .....	112.55-10(d)
Switchboards .....	111.30-25, 111.30-27, 111.30-29
Internal communications.....	113.30
Applicability.....	113.30-1
Locations.....	113.30-5
International Association of Drilling Contractors (IADC):	
Standards .....	110.10-1(b)
International Electrotechnical Commission (IEC):	
Standards .....	110.10-1(b)
International Maritime Organization (IMO):	
Standards .....	110.10-1(b)
International Society for Measurement and Control (ISA):	
Standards .....	110.10-1(b)
Intrinsically safe systems .....	111.105-11

### J

Junction boxes ( <i>See</i> Boxes)	
------------------------------------	--

### L

Lampholders, connections to.....	111.75-5(e)
Lamps, portable ( <i>See</i> Lighting, fixtures)	
Lanterns, battery operatedTable.....	112.05-5(a), 112.39
Lifeboat receptacles ( <i>See</i> Survival craft floodlights)	
Lifeboat winches ( <i>See</i> Boat winches)	
Lighting:	
Branch circuits.....	111.75-5
Emergency system .....	112.43
Feeders .....	111.75-1
Feeders, emergency.....	112.43-15
Fixtures, general.....	111.75-20
For cargo handling rooms .....	111.105-31(g)
Requirements.....	111.75-15
System ground detection .....	111.05-21(c)
Lightning ground conductor.....	111.05-9
Lights, navigation:	
General.....	111.75-17
Power supply .....	112.15-1(a)
Lights, signaling:	
General.....	111.75-18
Power supply .....	112.15-1(m)
Liquid sulfur carriers .....	111.105-31
Locations:	
Corrosive, definition.....	110.15-1(b)
Location not requiring an exceptional degree of protection, definition	
of .....	110.15-1(b)
Location requiring an exceptional degree of protection, definition of.....	110.15-1(b)
Locking device:	

## 46 CFR (10-1-98 Edition)

Panelboards .....	111.40-9
Lookout, communication for .....	113.30-5(g)
Loudspeaker system ( <i>See</i> Public address system)	
Low voltage release.....	111.70-3(b)
Low voltage protection .....	111.70-3(c)
Lube oil pumps, power supply for.....	112.15-5(g)

## M

Machinery spaces:	
Emergency lighting .....	112.15-1
Lighting of .....	111.75-1(b), 111.75-15(b)
Machinery stop stations.....	111.103-9
Main emergency bus-tie .....	112.05-3
Manual emergency lighting and power system, definition of.....	112.01-5
Manual fire alarm systems.....	113.10
Marine inspector, definition of.....	110.15-1(b)
Marking:	
General emergency alarm system components.....	113.25-20
Motors .....	111.25-5
Masts, grounding of .....	111.05-9
Meters ( <i>See</i> Instruments)	
Military Specifications:	
Standards .....	110.10-1(b)
Mobile offshore drilling units:	
Hazardous location .....	111.105-33
Motor circuits .....	111.70
General .....	111.70-1
Heater circuits.....	111.70-5
Low voltage protection .....	111.70-3(c)
Low voltage release.....	111.70-3(b)
Motor control centers.....	111.70-3
Motor controllers .....	111.70
Motors .....	111.25
Degree of protection .....	111.01-9
Duty cycle.....	111.25-15
General requirements .....	111.25-1
Heaters .....	111.70-5
Marking.....	111.25-5

## N

National Electrical Code (NEC) ( <i>See</i> National Fire Protection Association)	
National Electrical Manufacturers Association (NEMA):	
Standards .....	110.10-1(b)
National Fire Protection Association (NFPA):	
Standards .....	110.10-1(b)
Naval Publications and Forms Center:	
Standards .....	110.10-1(b)
Naval Sea Systems Command:	
Standards .....	110.10-1(b)
Navigating bridge:	
Emergency lighting and distribution panel .....	112.15-1(g), 112.43-7
Public address systems.....	113.50
Navigation light indicator panel .....	111.75-17(b)
Power supply.....	112.43-13
Navigation lights .....	111.75-17
Power supply .....	112.15-1(a)

## INDEX

- Neutral, grounding of ..... 111.05-15, 111.05-17  
Nonsparking fan, definition of ..... 110.15-1(b)

### O

- Ocean vessel, definition of ..... 110.15-1(b)  
Oil immersion heaters ..... 111.85  
Outlet boxes:  
    Cable entrances ..... 111.81-3  
    General ..... 111.81-1  
    Shore power ..... 111.83  
Overcurrent protection ..... 111.50  
    Appliance circuits ..... 111.77-1  
    Battery conductors ..... 111.15-25  
    Circuit breakers ..... 111.54  
    Conductors, general ..... 111.50-3  
    Coordination of devices ..... 111.51  
    Disconnecting and guarding ..... 111.50-9  
    Enclosures for devices ..... 111.50-7  
    Equipment, general ..... 111.50-1  
    Flexible cord and fixture wire for lighting circuits ..... 111.75  
    Fuses ..... 111.50-3, 111.53  
    Generators ..... 111.12-11  
    Grounded conductors ..... 111.50-3(g)  
    Location of devices ..... 111.50-5  
    Motors and motor circuits ..... 111.70  
    Navigation lights ..... 111.75-17  
    Parallel devices ..... 111.50-3(d)  
    Propulsion circuits ..... 111.35  
    Switchboard circuits ..... 111.30-17  
    Systems integration ..... 111.50-2  
    Thermal devices ..... 111.50-3(e)  
    Transformers ..... 111.20-15  
    Ungrounded conductors ..... 111.50-3(f)  
    Watertight door systems ..... 111.97-9  
Overcurrent protection, coordination of ..... 111.51

### P

- Paint stowage or mixing spaces ..... 111.105-43  
Panelboards ..... 111.40  
    Directory ..... 111.40-11  
    Enclosure ..... 111.40-5  
    Location ..... 111.40-7  
    Locking device ..... 111.40-9  
Parallel operation of generators ..... 111.12-7  
Passageways, lighting of ..... 112.15-1(c)  
Plan submittals ..... 110.25  
Public address system:  
    Applicability ..... 113.50-1  
    Distribution of cable runs ..... 113.50-20  
    General requirements ..... 113.50-5  
    Location ..... 113.50-15  
    Passenger vessels, additional requirements for ..... 113.50-10  
    Power supply for ..... 112.15-1(j)  
    Sound level requirements ..... 113.50-15

## 46 CFR (10-1-98 Edition)

### Q

Qualified person, definition.....	110.15-1(b)
-----------------------------------	-------------

### R

Radar .....	112.15-5(j)
Radio, power supply.....	112.15-5(i)
Radio direction finder, power supply .....	112.15-5(j)
Receptacles .....	111.79
Reference specifications, standards, and codes .....	110.10
Refrigerated spaces alarm system.....	113.45
Regulators, voltage.....	111.30-25(b)(5), 111.30-27(c)(2), 111.30-29(f)
Release, fire door ( <i>See</i> Fire door holding and release systems)	
Remote stopping systems .....	111.103
Machinery space ventilation.....	111.103-3
Machinery stop stations.....	111.103-9
Ventilation stop stations .....	111.103-7
Ventilation systems, general .....	111.103-1
Repairs .....	110.01-3
Resistors, discharge .....	111.30-25(c)
Reverse-power protection:	
Batteries .....	111.15-25
Generators .....	111.12-11(f)
Rheostats .....	111.30-25(c), 111.30-27(b)(3)
Rudder angle indicator systems .....	113.40
Power supply for .....	112.15-5(h)

### S

Seals and seal fittings .....	111.105-17
Semiconductor rectifiers (SCR) .....	111.33
Propulsion systems .....	111.33-11
Switchboard requirements .....	111.33-1
Temperature alarm.....	111.33-7, 111.33-11
Ventilation exhaust.....	111.33-9
Ship's service generators ( <i>See</i> Generators)	
Shore connection:	
Boxes .....	111.83
Pilot lights.....	111.30-25(f), 111.30-27(f)
Switch or circuit breaker .....	111.30-25(f), 111.30-27(f)
Voltmeter.....	111.30-25(f), 111.30-25(f)
Short-circuit current calculations.....	111.52
Signaling lights.....	111.75-18
Power supply.....	112.43-7, 112.43-9, 112.15-1(m)
Smoke detector systems:	
Power supply .....	112.15-1(n)
Sound level:	
General emergency alarm system .....	113.25-9
Loudspeakers .....	113.50-15
Sound powered telephone systems ( <i>See</i> Internal communications)	
Spacing ( <i>See</i> Accessibility)	
Splices and splicing.....	111.60-19
Sprinkler systems, automatic.....	113.20
Power supply .....	112.15-5(f)
Stairways, emergency lighting of .....	112.15-1(c)
Standards, references and codes .....	110.10-1
Starting, emergency generator prime mover .....	112.50
Steering failure alarm system .....	113.43

## INDEX

Steering gear room, communication with.....	113.30-5(a)(2)
Steering station, alternative, communication with.....	113.30-5(a)(3)
Storage battery ( <i>See</i> Batteries, storage)	
Submersible motor-driven bilge pumps.....	111.101
Power supply.....	111.101-3(f), 112.15-5(d)
Submittals .....	110.25
Survival craft floodlights:	
Branch circuits .....	112.43-11
Distribution panel .....	112.43-7
General.....	111.75-16
Receptacles .....	111.79-9, 111.79-11
Switchboards.....	111.30
Alternating-current ship's service .....	111.30-25
Buses .....	111.30-19
Construction.....	111.30-5
Direct-current ship's service.....	111.30-27
Emergency .....	111.30-29
Installation.....	111.30-1
Location .....	111.30-1
Nameplates .....	111.30-15
Propulsion.....	111.35
Protection of instrument circuits.....	111.30-17
Rear access .....	111.30-3
Switches.....	111.55
Bus sectionalizing.....	111.30-24
Circuit connections .....	111.55-3
Emergency lighting system.....	112.43-1
General .....	111.55-1
Generator .....	111.30-25(b), 111.30-27(b)
Hazardous locations.....	111.105-19
Lifeboat.....	111.95
Snap.....	111.55-7
Synchronizing lamps .....	111.30-25(d)
Synchroscope .....	111.30-25(d)

## T

Tank vessels:	
Electrical installations in hazardous locations .....	111.105
Grounded distribution systems .....	111.05-19
Telegraph, engine order( <i>See</i> Engine order telegraph)	
Temperature, air heater case .....	111.87-3(e)
Temperature, ambient .....	111.01-15
Temperature alarm, SCR.....	111.33-9
Temperature ratings .....	111.01-15
Temperature rise:	
Lighting fixtures .....	111.105-31(g)(4)
Transformers .....	111.20-5
Temporary emergency loads.....	112.15-1
Temporary emergency power source, definition of .....	112.01-15
Terminations .....	111.60-17
Testing and inspection ( <i>See</i> Inspection and testing)	
Transformers.....	111.20
Autotransformers.....	111.20-10
General .....	111.20-1
Overcurrent protection.....	111.10-9
Power and lighting system.....	111.10-9
Temperature rise .....	111.20-5

## 46 CFR (10-1-98 Edition)

### U

Underwriters Laboratories, Inc. (UL):

Standards .....	110.10-1(b)
Ungrounded systems, ground detection for.....	111.05-25

### V

Ventilation:

Remote stopping systems .....	111.103
Semiconductor rectifiers.....	111.33-5, 111.33-9
Storage batteries .....	111.15-10
Ventilation alarms .....	111.33-7, 111.105-33(f), 111.105-39
Vessels carrying coal.....	111.105-35
Visible indicators .....	112.45-1
Vital circuits, segregation of.....	111.60-9
Vital equipment, protection of.....	111.51-3
Voltage regulation, generators.....	111.12-7
Voltages, standard .....	111.01-17
Voltmeters:	
Generator .....	111.30-25(b)(5), 111.30-27(c), 111.30-27(d), 111.30-27(g)
Shore power .....	111.30-25(f), 111.30-27(g)

### W

Waterproof equipment .....	111.01-9
Waterproof, definition of.....	110.15-1(b)
Watertight, definition of .....	110.15-1(b)
Watertight door systems.....	111.97
Applicability.....	111.97-1
Distribution.....	111.97-7
Electric and hydraulic power supply .....	111.97-5
General requirements.....	111.97-3
Lighting .....	112.15-1(c), 112.15-1(e)
Overcurrent protection.....	111.97-9
Power source.....	112.15-1(i)
Watertight equipment .....	111.01-9
Fire detection and alarm system.....	113.10-7
General emergency alarm systems.....	113.25-11(a), 113.25-14, 113.25-15(a)
Internal communications.....	113.30
Outlet boxes .....	111.81
Receptacles.....	111.79-1
Rudder angle indicator .....	113.40-10(b)
Sound powered telephone systems .....	113.30-25
Sprinkler systems.....	113.20-3
Wattmeter, generator .....	111.30-25(d)(2)
Wheelhouse ( <i>See</i> Navigating bridge)	
Whistle Operators.....	113.65
Source of power .....	112.15-1(o)
Winches, boat, electric-power operated.....	111.95
Wire:	
General.....	111.60-11
Switchboard.....	111.30-19(b)
Wiring materials and methods:	
General.....	111.60
Methods hazardous locations.....	111.105-17
Working space, switchboard .....	111.30-1
Emergency lighting .....	112.15-1(c), 112.15-1(f)